

32692
Customer Number

PATENT
Docket No.: 58182US004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

SHALLEY K. GUPTA, TARUN K.
GHOSH and JASON R. FINK

Serial No.:
Filed:

Group Art Unit:

Examiner:

For: GENE EXPRESSION SYSTEMS
AND RECOMBINANT CELL
LINES

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

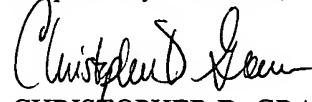
Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. Copies of any cited foreign patents, non-patent literature, and unpublished US application documents are enclosed. Pursuant to the waiver in the Pre-OG Notice, dated July 25, 2003, copies of US patents and published US patent applications are no longer required and are not enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

The Examiner's attention is also directed to a co-assigned, co-pending application which is being filed on the same date herewith and bearing Attorney Docket No. 58183US004. A copy of this application is enclosed for the Examiner's consideration.

Applicants submit that the above references, whether taken alone or in combination with each other neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to the captioned application is respectfully requested.

Respectfully submitted,


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Dated: December 10, 2003

Substitute for f rm 1449A/PTO (modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A1	US- 4,689,338	08-25-1987	Gerster	
	A2	US- 4,698,348	10-06-1987	Gerster	
	A3	US- 4,929,624	05-29-1990	Gerster et al.	
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	A5	US- 5,037,986	08-06-1991	Gerster	
	A6	US- 5,175,296	12-29-1992	Gerster	
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	A16	US- 5,446,153	08-29-1995	Lindstrom et al.	
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	A19	US- 5,693,811	12-02-1997	Lindstrom	
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	A21	US- 5,756,747	05-26-1998	Gerster	
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		Doc. Number-(Kind Code if Known)			
A30	US- 6,200,592 B1		03-13-2001	Tomai et al.	
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Foreign Patent Documents

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		Ctry. Code	Number-KindCode (If known)				
B1	EP	0 394 026		10-24-1990			
B2	EP	1 104 764		06-06-2001			
B3	JP	9-208584		08-12-1997			
B4	JP	11-80156		03-26-1999			X

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		Ctry. Code	Number-KindCode (if known)				
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	B6	JP	2000-247884 (abstract only)	09-12-2000			X
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	B8	WO	00/75304 A1	12-14-2000			
	B9	WO	00/76505 A1	12-21-2000			
	B10	WO	00/76518 A1	12-21-2000			
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	B23	WO	03/020889 A2	03-13-2003			
	B24	WO	03/043572 A2	05-30-2003			
	B25	WO	03/045391 A1	06-05-2003			

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Testerman, et al., "Cytokine Induction by the Immunomodulators Imiquimod and S-27609", <u>Journal of Leukocyte Biology</u> , Volume 58, pp. 365-372, September 1995.
	C2	Chollet, et al, "Development of a Topically Active Imiquimod Formulation", <u>Pharmaceutical Development and Technology</u> , 4(1), pp 35-43 (1999)

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	C3	Hornung et al., "Quantitative Expression of Toll-Like Receptor 1-10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides ¹ ", <u>The Journal of Immunology</u> , 2002, 168; pgs. 4531-4537.
	C4	Hemmi et al., "Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent Signaling pathway", <u>Nature Immunology</u> , vol. 3, no. 2; February 2002; pgs. 196-200.
	C5	Medzhitov, "Toll-Like Receptors and Innate Immunity", <u>Nature Reviews Immunology</u> , Vol. 1; November 2001, pgs. 135-145.
	C6	Jurk et al. "Human TLR7 and TLR8 independently confer responsiveness to the antiviral compound R-848", <u>Nature Immunology</u> , June 2002, vol. 3, no. 6; pg. 1.
	C7	Akira et al., "Toll-like receptors: critical proteins linking innate and acquired immunity", <u>Nature Immunology</u> , August 2001, vol. 2, no. 8; pgs. 675-680
	C8	Yamamoto et al.; "Essential role for TIRAP in activation of the signalling cascade shared by TLR2 and TLR4"; <u>Nature</u> ; Vol. 420; November 21, 2002; pgs. 324-337
	C9	Alexopoulou et al.; "Recognition of double-stranded RNA and activation of NF-κB by Toll-like receptor 3"; <u>Nature</u> ; Vol. 413; October 18, 2001; pgs. 732-738
	C10	Flo et al.; "Involvement of Toll-like Receptor (TLR) 2 and TLR4 in Cell Activation by Mannuronic Acid Polymers"; <u>The Journal of Biological Chemistry</u> ; Vol. 277, No. 38, September 20, 2002; pgs. 35489-35495
	C11	Chuang et al.; "Toll-like receptor 9 mediates CpG-DNA signaling"; <u>Journal of Leukocyte Biology</u> ; Vol. 71, March 2002; pgs. 538-544
	C12	Schwandner et al.; "Peptidoglycan- and Lipoteichoic Acid-induced Cell Activation Is Mediated by Toll-like Receptor 2"; <u>The Journal of Biological Chemistry</u> ; Vol. 274, No. 25, June 18, 1999; pgs. 17406-17409
	C13	Brassard et al.; "Interferon-α as an immunotherapeutic protein"; <u>Journal of Leukocyte Biology</u> ; Vol. 71; April 2002; pgs. 565-581

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